



OIPE

## RAW SEQUENCE LISTING

DATE: 03/19/2003

PATENT APPLICATION: US/09/883,119B

TIME: 13:13:40

Input Set : A:\23239-301C.txt

Output Set: N:\CRF4\03192003\I883119B.raw

Does Not comply  
Corrected Diskette Needed

3 <110> APPLICANT: Ellington, Andrew  
 4 Hess-elberth, Jay  
 5 Marshall, Kris  
 6 Robertson, Michael  
 7 Sooter, Letha  
 8 Davidson, Eric  
 9 Cox, J. Colin  
 10 Eardel, Timothy  
 12 <130> TITLE OF INVENTION: Regulatable, Catalytically Active Nucleic Acids  
 14 <140> FILE REFERENCE: 03.39-301C  
 16 <140> CURRENT APPLICATION NUMBER: 09/883,119B  
 C--> 17 <141> CURRENT FILING DATE: 2003-03-11  
 18 <150> PRIOR APPLICATION NUMBER: 60/212,097  
 20 <151> PRIOR FILING DATE: 2000-06-15  
 22 <160> NUMBER OF SEQ ID NOS: 66  
 24 <170> SOFTWARE: PatentIn version 3.1  
 26 <210> SEQ ID NO: 1  
 27 <211> LENGTH: 129  
 28 <212> TYPE: DNA  
 29 <213> ORGANISM: Artificial Sequence  
 31 <216> FEATURE:  
 32 <223> OTHER INFORMATION: Engineered Aptazyme  
 34 <400> SEQUENCE: 1  
 35 aaatcttacc ccgaattat atccagctgc atgtaccat gcagagcaga ctatatctcc 60  
 37 aactgttaa agaaattgt ctatgtttc gagtcaactg accctactcc ccaaagggat 120  
 39 agtgcgttag 129  
 41 <210> SEQ ID NO: 2  
 43 <211> LENGTH: 131  
 44 <212> TYPE: DNA  
 45 <213> ORGANISM: Artificial Sequence  
 47 <216> FEATURE:  
 48 <223> OTHER INFORMATION: Engineered Aptazyme  
 50 <400> SEQUENCE: 2  
 51 gactgagtat aaggtgactt atacttgtaa tatatctaaa cggggaacct ctctagtaga 60  
 53 aaatcccgig cttaattata ccagcatcgt cttgatgcc ttggcagata aatgcctaac 120  
 55 gactatacct t 131  
 58 <210> SEQ ID NO: 3  
 59 <211> LENGTH: 75  
 60 <212> TYPE: DNA  
 61 <213> ORGANISM: Artificial Sequence  
 63 <216> FEATURE:  
 64 <223> OTHER INFORMATION: Engineered Aptazyme  
 66 <400> SEQUENCE: 3

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```

67 gataatacga ctactatag ggaatcaagc tcagtagatg tttcttgagg ttaattgagg 60
69 ccttagta t aggtg 75
72 <110> SEQ ID NO: 4
73 <111> LENGTH: 89
74 <112> TYPE: DNA
75 <113> ORGANISM: Artificial Sequence
76 <114> FEATURE:
77 <115> OTHER INFORMATION: Engineered Aptazyme
78 <116> FEATURE:
81 <211> NAME/KEY: misc_feature
82 <212> OTHER INFORMATION: Engineered Sequence
83 <210> SEQUENCE: 4
85 cttagctata atatgaacta acgtagcata tgaagcaata ttaaacggta gcattatggt 60
87 cagataaggt cgttaatttt accccggaa 89
90 <110> SEQ ID NO: 5
91 <111> LENGTH: 131
92 <112> TYPE: DNA
93 <113> ORGANISM: Artificial Sequence
94 <114> FEATURE:
95 <115> OTHER INFORMATION: Engineered Aptazyme
96 <116> FEATURE:
99 <211> NAME/KEY: misc_feature
100 <212> LOCATION: (77)..(77)
101 <213> OTHER INFORMATION: n=a,c,t, or g
102 <210> FEATURE:
104 <311> NAME/KEY: misc_feature
105 <312> LOCATION: (103)..(108)
106 <313> OTHER INFORMATION: n=a,c,t, or g
107 <310> SEQUENCE: 1
109 gattgaatat aaggttaatt atactagtaa tctatctaaa cggggaacct ctctagtaga 60
W--> 111 caatcccggtg ctaaattata ccagcatcgt cttgatgcc ttggcagnta aatgcctaac 120
112 caatattatc t 131
116 <110> SEQ ID NO: 6
117 <111> LENGTH: 101
118 <112> TYPE: DNA
119 <113> ORGANISM: Artificial Sequence
120 <114> FEATURE:
121 <115> OTHER INFORMATION: Engineered Aptazyme
122 <116> FEATURE:
125 <211> NAME/KEY: misc_feature
126 <212> OTHER INFORMATION: Engineered Aptazyme
127 <210> FEATURE:
129 <311> NAME/KEY: misc_feature
130 <312> OTHER INFORMATION: Engineered Sequence
131 <310> SEQUENCE: 6
133 cttagctata atatgaacta acgtagcata tgaagcaata ttaaacggta gtattatggt 60
135 cagataaggt cgttaatttt accccggaat tctatccagg t 101
138 <110> SEQ ID NO: 7
139 <111> LENGTH: 116

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*Insert hard returns*

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140 <212> TYPE: DNA
141 <213> ORGANISM: Artificial Sequence<220><223> Engineered Aptazyme
142 <220> FEATURE:
143 <221> NAME KEY: misc_feature
144 <222> LOCATION: (37)..(87)
145 <223> OTHER INFORMATION: n=a, t, g, or c
146 <400> SEQUENCE: 7
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151 nnnnnnnnnn nnnnnnnnnn nnnnnngagg ttaggtgcct cgtgatgtcc agtcgc 116
152 <210> SEQ ID NO: 8
153 <211> LENGTH: 20
154 <212> TYPE: DNA
155 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: primer
158 <400> SEQUENCE: 8
159 ttctaatacg actcactata 20
160 <210> SEQ ID NO: 9
161 <211> LENGTH: 18
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: primer
166 <400> SEQUENCE: 9
167 ggacctcggc actcagag 18
168 <210> SEQ ID NO: 10
169 <211> LENGTH: 36
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial Sequence
172 <220> FEATURE:
173 <223> OTHER INFORMATION: primer
174 <400> SEQUENCE: 10
175 ttctaatacg actcactata ggacctcggc gaaagc 36
176 <210> SEQ ID NO: 11
177 <211> LENGTH: 80
178 <212> TYPE: DNA
179 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: competitor sequence
182 <400> SEQUENCE: 11
183 ggcgaagcgc agcagcagc gaaucgagc agagaacugg ugcgaagcgc agaaaguuca 60
184 ggcgaagcgc agcagcagc 80
185 <210> SEQ ID NO: 12
186 <211> LENGTH: 80
187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: competitive sequence
191 <400> SEQUENCE: 12

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213 gggaauggau ccacaucuac gaauucguag cguagaguau gagagagcca agguacaggu      60
214 ucuccaagac ucgaaggaagc uu      80
215 <110> SEQ ID NO: 13
216 <111> LENGTH: 80
217 <112> TYPE: DNA
218 <113> ORGANISM: Artificial Sequence
219 <120> FEATURE:
220 <121> OTHER INFORMATION: competitive sequence
221 <400> SEQUENCE: 13
222 gggaauggau ccacaucuac gaauucauca gggcuaaaga ggcagagauu acuuaguuca      60
223 ucuccaagacu ucgaaggaagc uu      80
224 <110> SEQ ID NO: 14
225 <111> LENGTH: 211
226 <112> TYPE: DNA
227 <113> ORGANISM: Artificial Sequence
228 <120> FEATURE:
229 <121> OTHER INFORMATION: competitive sequence
230 <400> SEQUENCE: 14
231 gggaauggau ccacaucuac gaauucauca gggcuaaaga ggcagagauu acuuaguuca      60
232 ucuccaagacu ucgaaggaagc uu      100
233 gggaauggau ccacaucuac gaauucauca gggcuaaaga ggcagagauu acuuaguuca      140
234 gggaauggau ccacaucuac gaauucauca gggcuaaaga ggcagagauu acuuaguuca      211
235 <110> SEQ ID NO: 15
236 <111> LENGTH: 80
237 <112> TYPE: DNA
238 <113> ORGANISM: Artificial Sequence
239 <120> FEATURE:
240 <121> OTHER INFORMATION: competitive sequence
241 <1210> FEATURE:
242 <1211> NAME/KEY: misc_feature
243 <222> LOCATION: (27)..(56)
244 <123> OTHER INFORMATION: n=a,c,t, or g
245 <400> SEQUENCE: 15
W--> 264 gggaauggau ccacaucuac gaauucnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnuua      60
265 ucuccaagacu ucgaaggaagc uu      80
266 <110> SEQ ID NO: 16
267 <111> LENGTH: 122
268 <112> TYPE: DNA
269 <113> ORGANISM: Artificial Sequence
270 <120> FEATURE:
271 <121> OTHER INFORMATION: Parental P6 construct
272 <400> SEQUENCE: 16
273 gggaauggau ccacaucuac gaauucnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnuua      60
274 ucuccaagacu ucgaaggaagc uu      100
275 gggaauggau ccacaucuac gaauucnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnuua      122
276 <110> SEQ ID NO: 17
277 <111> LENGTH: 24
278 <112> TYPE: DNA
279 <113> ORGANISM: Artificial Sequence

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200 <239> FEATURE:
201 <239> OTHER INFORMATION: primer
202 <239> SEQUENCE: 17
203 tatataat tatataata aacg 24
207 <239> SEQ ID NO: 18
208 <239> LENGTH: 24
209 <239> TYPE: DNA
210 <239> ORGANISM: Artificial Sequence
211 <239> FEATURE:
212 <239> OTHER INFORMATION: primer
213 <239> SEQUENCE: 19
214 aacaaattt tatcaagctg catg 24
215 <239> SEQ ID NO: 19
216 <239> LENGTH: 94
217 <239> TYPE: DNA
218 <239> ORGANISM: Artificial Sequence
219 <239> FEATURE:
220 <239> OTHER INFORMATION: oligonucleotide
221 <239> SEQUENCE: 14
222 gactagtat aaggtgaatt atacttgtaa tctatctaaa cgggggaacct ctctagtaga 60
223 caatcccgctg cttaaagctt aacgactatc cttt 94
227 <239> SEQ ID NO: 20
228 <239> LENGTH: 131
229 <239> TYPE: DNA
230 <239> ORGANISM: Artificial Sequence
231 <239> FEATURE:
232 <239> OTHER INFORMATION: oligonucleotide
233 <239> SEQUENCE: 20
234 gactagtat aaggtgaatt atacttgtaa tctatctaaa cgggggaacct ctctagtaga 60
235 caatcccgctg cttaaattata caagcatcgt cttgatgcc ttggcagata aatgcctaac 120
236 gactatccct t 131
239 <239> SEQ ID NO: 21
240 <239> LENGTH: 133
241 <239> TYPE: DNA
242 <239> ORGANISM: Artificial Sequence
243 <239> FEATURE:
244 <239> OTHER INFORMATION: oligonucleotide
245 <239> SEQUENCE: 21
246 gactagtat aaggtgaatt atacttgtaa tctatctaaa cgggggaacct ctctagtaga 60
247 caatcccgctg cttaaattgat accagcatcg tcttgatgcc cttggcagca taaatgccta 120
248 aagactatcc ctt 133
255 <239> SEQ ID NO: 22
256 <239> LENGTH: 119
257 <239> TYPE: DNA
258 <239> ORGANISM: Artificial Sequence
259 <239> FEATURE:
260 <239> OTHER INFORMATION: oligonucleotide
261 <239> SEQUENCE: 22
262 gactagtat aaggtgaatt atacttgtaa tctatctaaa cgggggaacct ctctagtaga 60

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/883,119B

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Input Set : A:\23239-301C.txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 77,108  
Seq#:7; N Pos. 37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56  
Seq#:7; N Pos. 57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76  
Seq#:7; N Pos. 77,78,79,80,81,82,83,84,85,86  
Seq#:15; N Pos. 27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46  
Seq#:15; N Pos. 47,48,49,50,51,52,53,54,55,56  
Seq#:35; N Pos. 27,38,39,40,41,42,43,44,45,46,47  
Seq#:36; N Pos. 14,15,16,17  
Seq#:37; N Pos. 39,40,41,42,43  
Seq#:41; N Pos. 28  
Seq#:43; N Pos. 31  
Seq#:44; N Pos. 32